

REMARKS

This is in response to the Office Action of April 4, 2005. With this response, claim 1 is amended and all pending claims 1-7, 9-24 and 26-35 are presented for reconsideration and favorable action.

In the Office Action, the Examiner noted a typographical error in claim 1. That claim is amended and it is believed that the objection may be withdrawn.

Claims 1-8, 10, 11, 13-25, 27, 28 and 30-35 were rejected under 35 U.S.C. § 102 based upon Rhein (US 5,811,979). Additionally, claims 9, 12, 26 and 29 were rejected under 35 U.S.C. § 103 based upon Rhein in view of Bertness (US 6,316,914). It is believed that the invention as set forth in the pending claims is not shown or suggested by the two references and the rejections should be withdrawn.

Independent claims 1, 18, and 35 are directed to determining cable resistance of wiring of an electrical system which includes a battery. In contrast, the Rhein reference is directed to determining the resistance of a cable 22 which is not a part of an electrical system and which does not include a battery. In Rhein, the electrical resistance of cable 22 is measured independently, without connection to any circuitry other than the test equipment itself. This is illustrated, for example, in Figure 1 of the Rhein reference. For this reason, the rejection should be withdrawn.

The independent claims also include measuring a first parameter of the electrical system between a first connection to the electrical system and the second connection to the electrical system. The "electrical system" of Rhein is the cable 22 which is being tested. As described in enumerated points 1-4 at column 5, lines 26-39 of Rhein, four different voltages are measured. These four voltages are all measured with respect to point 26B in the test equipment 10. Therefore, Rhein does not measure a first parameter of the electrical system 22 between first and second connections to the electrical system. Rhein shows only two

connection to the cable 22 at contacts 14 and 16. For this additional reason the rejections should be withdrawn.

The pending independent claims also include measuring a second electrical parameter between the second connection and a third connection to the electrical system. As discussed above, with respect to the measured first parameter, Rhein shows no such measurement. For this further reason the rejections should be withdrawn.

As Rhein does not show measurement of the claimed first and second parameters of the electrical system as set forth in the independent claims, it follows that Rhein also does not determine cable resistance of wiring of the electrical system as a function of the measured first and second parameters as set forth in the independent claims. This is a further reason for withdrawal of the rejections.

In view of the above amendments and remarks, it is believed that the present application is in condition for allowance. Consideration and favorable action are respectfully requested.

The Director is authorized to charge any fee deficiency required by this paper or credit any overpayment to Deposit Account No. 23-1123.

Respectfully submitted,

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